

DOCKET NO: 262666US0PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :
YOKO HANADA, ET AL. : EXAMINER: PALENIK, J. T.
SERIAL NO: 10/517,375 :
FILED: JUNE 9, 2005 : GROUP ART UNIT: 1615
FOR: HAIR COSMETICS :

RESPONSE TO REQUEST FOR INFORMATION

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

The following is a response to the Office communication dated September 17, 2008, which Office communication is a Request for Information that requires information about the commercially product FZ-3789. While the Office is also asking for information about “similar products,” Applicants assume that means products within the terms of component (A) of present Claim 1.

It is disclosed in the specification herein, at page 32, line 11, that “FZ-3789” is a product manufactured by Nippon Unicar. Nippon Unicar has been merged into Dow Corning Toray Co., Ltd. Information about “FZ-3789” is accordingly available from the website of Toray Dow Corning:

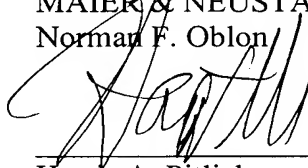
<http://www.dowcorning.co.jp/applications/search/default.aspx?R=3021JA>

It is believed that “FZ-3789” has been changed in name to “Silstyle 201”. Silstyle 201 is “Bis-butyloxyamodimethicone/PEG-60 copolymer” according to INCI (International Cosmetic Ingredient Dictionary and Handbook).

Attached herewith are (1) a printed page from the above-referenced website of Toray Dow Corning showing Dow Corning Toray FZ-3789; (2) a printed page including an English translation in part, showing the chemical formula of Silstyle 201; (3) a Material Safety Data Sheet for Dow Corning Toray FZ-3789; and (4) a page from above-referenced INCI describing Dow Corning Toray Silstyle 201.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.
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検索

検索

ホーム > 製品:製品検索

DOW CORNING TORAY FZ-3789

*

ユーザーガイド
Product Q&A(英語)

国: 日本国

説明

本製品は、直鎖状のシロキサン・ポリエーテルブロック共重合体で、側鎖に反応性官能基としてアミノ基を有する変性シリコーンオイルです。親水性と柔軟性を兼ね備えた変性シリコーンオイルで、繊維の親水柔軟加工剤として好適です。耐久性にも優れています。

MSDS,製品データシートに関する詳しい情報はページをご覧ください。

一般特性 | 法規制

アミノ基	= 1.3 %
動粘度	= 1000 Centistokes
比重(25°C)	= 1.03
色	ライトブラウン

製品のデータシートは代表特性で、規格値ではありません。

*

製品検索ヘルプ
お問い合わせ

注文方法

サンプルを請求する

製品の購入案内

*

その他の該当するコンテンツ
繊維および皮革用途

データシート・ダウンロード

データシート・フォーマット 日本国

MSDS(PDFファイル)

DOW CORNING TORAY FZ-3789, 英語 (50 KB)

DOW CORNING TORAY FZ-3789, 日本語 (462 KB)

製品データシート(PDFファイル)

申し訳ありませんが、該当する文書は見つかりませんでした。

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関連するサービスおよびソリューション
分析

採用情報 | サイト マップ | 他のダウコーニングのウェブサイト

WEBのご利用に際しては、「プライバシーの保護について」及び「当社WEBのご利用上の注意」をご参照頂き、ご同意いただくようお願いいたします。

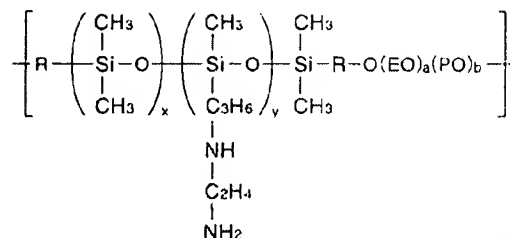
©2000 - 2008 Dow Corning Corporation. All rights reserved. Dow CorningはDow Corning Corporationの登録商標です。We help you invent the futureはDow Corning Corporationの登録商標です。

アミノ誘導体は、アミノ基を変性したり他のポリマーと組み合わせることにより、アミノ変性シリコーンの特長を保持しつつ、新たな特性を付与したものです。

直鎖アミノポリエーテル変性シリコーンは、ポリエーテルとアミノ変性シリコーンが交互に結合した直鎖状のブロック共重合体です。アミノ変性シリコーンの感触に加え、ウェット時のさしみ・ドライ時のばさつきを低減します。

シリコンタイプ 201

ポリオキシエチレンタイプです。ポリエーテル、アミノともに含有量を高めに設定しており、しっとり感と保湿感が強調されたタイプです。



製品名	表示名称	INCI
SILSTYLE 201	(ヒスブチロキシアモシメチコン/PEG-60) コポリマー	Bis-Butyloxyamodimethicone/PEG-60 Copolymer

代表特性

製品名	外観	粘度(基油)(mm ² /s)	有効成分	N%(基油)	ポリエーテルタイプ(基油)
SILSTYLE 201	淡褐色液体	1,000	100	1.2	EO

SILSTYLE 401

ポリオキシエチレン・オキシプロピレン)のガム状タイプ(アミノ0.4%)を2-エチルヘキサン酸セチル50%に溶解した基油をノニオン乳化したエマルジョンです。

高重合タイプのため感触持続性に優れ、さしみ感の無さと、しっとり感のバランスがとれています。

製品名	主成分の表示名称	主成分のINCI
SILSTYLE 401	(ヒスブチロキシアモシメチコン/PEG-60) コポリマー、 オクタン酸セチル	Bis-Butyloxyamodimethicone/PEG-60 Copolymer (and) Cetyl Ethylhexanoate

代表特性

製品名	外観	基油	基油(%)	乳化剤	pH
SILSTYLE 401	乳白色液体	ガム状(50%) + 2-エチルヘキサン酸セチル(50%)	40	ノニオン	8.0

アミノ基をアルキルエーテルカルボン酸でアミド化したもので、アミノ基に見られる黄変がないこと、親油基が付加したことによる肌や油性成分との親和性を特長とします。

OP-8496 Conditioning Agent

アミドアルキル基の他に、ポリオキシエチレン側鎖を付加したオイルです。親油性と親水性の側鎖を有することから処方配合系の幅が広く、ヘアケア用途ではモイスト感のあるコンディショニング性があります。

製品名	表示名称	INCI
OP-8496 Conditioning Agent	申請中	PEG-12 Methyl Ether Lauroxy PEG-5 Amidopropyl Dimethicone

代表特性

製品名	外観	粘度(mm ² /s)	比重 25℃	引火点℃	N%
OP-8496 Conditioning Agent	黄色微濁液体	1,000	1.0	237	0.6

Dow Corning Toray Co., Ltd.
Material Safety Data Sheet

Revision Date:

2008/04/21

MSDS No.:

04055506

DOW CORNING TORAY FZ-3789

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : DOW CORNING TORAY FZ-3789
Company Name : Dow Corning Toray Co., Ltd.
Address : 100-0005, AIG Bldg., 1-1-3 Marunouchi, Chiyoda-ku, Tokyo, Japan
Phone Number : 03-3287-8300 (Customer Service)
Fax Number : 03-3287-8311
Product Code : 04055506
Emergency Telephone Number : 0436-21-3101

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization : Mixture
Generic Name : Organofunctional Siloxane

Ingredients and Contents

<u>CAS Number</u>	<u>ENCS Number</u>	<u>Chemical formula</u>	<u>Wt %</u>	<u>Component Name</u>
929218-99-5	-	-	> 60	Polyoxyalkylene amino modified polydimethylsiloxane
-	(7)-455	Cycl-(SiMe ₂ O) _m (SiMeRO) _n Me=CH ₃ , R=H ₂ NC ₂ H ₄ NHC ₃ H ₆	1 - 10	Aminofunctional cyclosiloxanes

Comments : This product contains the above chemical(s) listed by regulations and/or European Commission Directive 1999/45/EC (Article 3[3]).

3. HAZARDS IDENTIFICATION

Overall Hazard Classification

Hazardous Properties : Irritating to eyes and skin.
Environmental Effects : Not applicable.
Physical and Chemical Risks : Not applicable.

Signs and Symptoms : Irritating to eyes and skin.
Hazard Classification (Japanese system) : Not applicable.

4. FIRST AID MEASURES

In Case of Inhalation : Remove to fresh air. Get immediate medical attention.
In Case of Skin Contact : Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
In Case of Eye Contact : Immediately flush with water for 15 minutes. Get medical attention.
In Case of Ingestion : Get medical attention.
Comments : Treat according to person's condition and specifics of exposure.
Note to physicians : Treat symptomatically. For further information, the medical practitioner should contact Dow Corning Toray Co., Ltd.

5. FIRE FIGHTING MEASURES

**Dow Corning Toray Co., Ltd.
Material Safety Data Sheet**

Revision Date: 2008/04/21
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DOW CORNING TORAY FZ-3789

- Extinguishing Media** : On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
- Unsuitable Extinguishing Media** : None established.
- Specific Hazards during Fire** : None.
- Specific Fire Fighting** : Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
- Protection for Fire-fighter** : Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions** : Avoid skin and eye contact. Do not breathe mist. Keep container closed. Do not take internally.
- Environmental Precautions** : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- Methods for Cleaning or Taking up** : Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE**Handling**

- Technical Measures** : Use with adequate ventilation.
- Precautions** : Avoid skin and eye contact.
- Advice on safe handling** : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Storage

- Advice on storage** : Use reasonable care and store away from oxidizing materials.
- Suitable packaging materials** : None established.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering Controls**

- Local Ventilation** : Recommended.
- General Ventilation** : Recommended.

Concentration Control Notification #26 from Ministry of Labor

None known.

Industrial Hygiene Standards

None known.

Personal Protective Equipment

**Dow Corning Toray Co., Ltd.
Material Safety Data Sheet**

Revision Date: 2008/04/21
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DOW CORNING TORAY FZ-3789**Personal Protective Equipment for Routine Handling**

- Respiratory protection** : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.
- Suitable Respirator** : Dust/Mist Type. As a minimum in situations where there is a potential for airborne misting or aerosolization may occur use a full-face air purifying respirator equipped with dust-mist cartridges. Industrial hygiene personnel can assist with the selection of specific respirators.
- Hand protection** : Chemical protective gloves should be worn.
- Eye protection** : Use chemical worker's goggles.
- Skin protection** : Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
- Hygiene Measures** : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Personal Protective Equipment for Spills

- Respiratory protection** : Dust/Mist Type. As a minimum in situations where there is a potential for airborne misting or aerosolization may occur use a full-face air purifying respirator equipped with dust-mist cartridges. Industrial hygiene personnel can assist with the selection of specific respirators.
- Eye protection** : Use chemical worker's goggles.
- Skin protection** : Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
- Precautionary Measures** : Avoid skin and eye contact. Do not breathe mist. Keep container closed. Do not take internally. Use reasonable care.
- Comments** : If this product is heated to > 150 degrees C, trace quantities of formaldehyde may be released, and adequate ventilation is required.
- Note** : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

- Form** : Liquid
- Color** : Light brown.
- Odour** : Amine-like odor

pH : Not determined.

Phase Transition Temperature or Temperature Range

- Boiling point/range** : > 100 °C
- Melting point/range** : Not determined.

Decomposition Temperature : Not determined.

Flash Point : 206 °C(Cleveland Open Cup)

Autoignition Temperature : Not determined.

Characteristics of Explosives : Not determined.

Vapor Pressure @ 25°C : Not determined.

Vapor Density : Not determined.

**Dow Corning Toray Co., Ltd.
Material Safety Data Sheet**Revision Date:
MSDS No.:2008/04/21
04055506**DOW CORNING TORAY FZ-3789**

Density : 1.03 g/cm³
Solubility : Not determined.
Partition Coefficient : Not determined.
(n-Octanol/Water)
Viscosity : 982 mm²/s

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Stability : Stable.
Reactivity : Hazardous polymerization will not occur.
Conditions to Avoid : None.
Materials to Avoid : Can react with strong oxidising agents.
Hazardous Decomposition : Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.
Products : Silicon dioxide. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
None known.

Local Effects

Eye : Direct contact may cause severe irritation.
Skin : May cause moderate irritation.

Acute Effects

Oral : May cause irritation to the mouth, throat and stomach.
Inhalation : Mist irritating to the respiratory tract.

Sensitizers

: None known.

Chronic Effects

Skin : Repeated or prolonged exposure may irritate seriously.
Oral : Repeated ingestion or swallowing large amounts may injure internally.
Inhalation : No known applicable information.

Carcinogens

: None known.

Mutagens

: None known.

Teratogens

: None known.

Reproductive Toxins

: None known.

Other Information : No known applicable information.

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution : Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded.
Environmental Effects : Under review.
Bioaccumulation : No bioaccumulation potential.
Fate and Effects in Waste Water Treatment Plants : No adverse effects on bacteria are predicted.

**Dow Corning Toray Co., Ltd.
Material Safety Data Sheet**

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DOW CORNING TORAY FZ-3789**13. DISPOSAL CONSIDERATIONS**

Waste Disposal : This product falls under Industrial Waste (Waste Oil) based on Wastes Disposal and Public Cleansing Law. Dispose of in accordance with this law and local regulations.
Note : None.

14. TRANSPORT INFORMATION

Local Regulations : Referred to Section 15.
International Regulations
Sea Transport (IMDG)
Not subject to IMDG code.
Air Transport (IATA)
Not subject to IATA regulations.

15. REGULATORY INFORMATION

Law Concerning Examination and Regulation of Manufacture, etc. of Chemical Substances : This product is not applied into the code about Specified Chemical Substances, Monitoring Chemical Substances and Designated Chemical Substances.
Industrial Safety and Health Law
Notification Substance : Not applicable.
Indication Substance : Not applicable.
Ordinance on Prevention of Organic Solvent Poisoning : Not applicable.
Ordinance on Prevention of Hazards due to Specified Chemical Substances : Not applicable.
Ordinance on Prevention of Lead Poisoning : Not applicable.
Ordinance on Prevention of Teraalkyl Lead Poisoning : Not applicable.
Hazardous Material Banned Substance : Not applicable.
High Pressure Gas Safe Law : Not applicable.
Fire Service Law : 4TH GROUP, 4TH CLASS PETROLEUMS (6,000L)
Poisonous and Deleterious Substance Control Law : Not applicable.
Pollutant Release and Transfer Register : Not applicable.
Marine Pollutant Prevention Law : Not Classified as a Marine Pollutant
Chemical Inventories
DSL : Consult your local Dow Corning office.
EINECS : All ingredients listed or exempt.
MITI : All components are listed on ENCS or its exempt rule.
KECL : All ingredients listed, exempt or notified.
TSCA : For R&D purposes only. One or more of the components of this product may not be listed on the TSCA inventory of chemical substances. Product should be used solely for scientific experimentation, research or analysis under the supervision of technically



**Dow Corning Toray Co., Ltd.
Material Safety Data Sheet**

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DOW CORNING TORAY FZ-3789

qualified individuals.

PICCS	:	Not determined.
AICS	:	Not determined.
IECSC	:	Not determined.

16. OTHER INFORMATION

Bibliography: Statue book of chemicals, Internal Technical Data and others

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. This Product has been developed and manufactured for general industrial use. For medical use, or other uses where safety considerations may be required, you must in advance test and review the safety of your intended application. Moreover, this Product is not for human implant nor human injection, nor use for applications which may present risk of accumulating inside human bodies.

***** This is the last page. *****

Bis(t-Butyl Benzoxazoly) Thiophene (Cont.)

Trade Name Mixtures:

410 Brightener 22 (Sterling)
EBT-22 Extender (Swada)

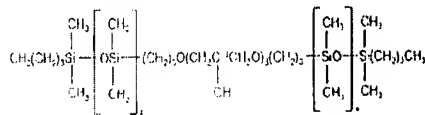
BIS-BUTYLDIMETHICONE POLY-GLYCERYL-3

CTFA Monograph ID: 19752

JPN Translation:

ビスブチルジメチコンポリグリセリル - 3

Definition: Bis-Butyldimethicone Poly-glyceryl-3 is the silicone polymer that conforms generally to the formula:



Chemical Classes: Siloxanes and Silanes; Synthetic Polymers

Functions: Hair Conditioning Agent; Skin-Conditioning Agent - Miscellaneous; Surfactant - Cleansing Agent; Surfactant - Emulsifying Agent; Surfactant - Solubilizing Agent; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Trade Name:

KF-6109 (Shin-Etsu Chemical Co.)

BIS-BUTYLOXYAMODIMETHICONE/PEG-60 COPOLYMER

CTFA Monograph ID: 16487

JPN Translation:

(ビスブチロキシアモジメチコン / PEG-60) コポリマー

Definition: Bis-Butyloxyamodimethicone/PEG-60 Copolymer is the polyethylene glycol dibutyl ether derivative of Amodimethicone (q.v.) containing an average of 60 moles of ethylene oxide.

Chemical Classes: Siloxanes and Silanes; Synthetic Polymers

Functions: Hair Conditioning Agent; Hair Fixative

Ingredient Source: Synthetic

Reported Product Categories: Hair Rinses (Non-coloring); Shampoos (Non-coloring); Tonics, Dressings, and Other Hair Grooming Aids

Trade Name:

Dow Corning Toray Silstyle 201 (Dow Corning Toray)

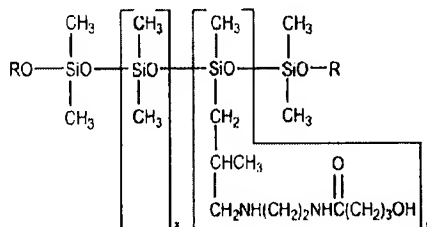
Trade Name Mixture:

Dow Corning Toray Silstyle 101 (Dow Corning Toray)

BIS(C13-15 ALKOXY) HYDROXY-BUTAMIDOAMODIMETHICONE

CTFA Monograph ID: 19338

Definition: Bis(C13-15 Alkoxy) Hydroxy-butamidoamodimethicone is the silicone polymer that conforms to the formula:



where R represents the C13-15 alkyl group.

Chemical Classes: Amides; Siloxanes and Silanes

Function: Hair Conditioning Agent

Ingredient Source: Synthetic

Trade Name:

Dow Corning 8813 Polymer (Dow Corning)

BIS(C13-15 ALKOXY) PG-AMODIMETHICONE

CTFA Monograph ID: 15853

JPN Translation:

ビス(C13-15アルコキシ)PGアモジメチコン

Definition: Bis(C13-15 Alkoxy) PG-Amodimethicone is Amodimethicone (q.v.) endblocked with C13-15 alkoxy groups, and with the amine groups further reacted with glycidol.

Chemical Classes: Amines; Siloxanes and Silanes

Function: Hair Conditioning Agent

Ingredient Source: Synthetic

Trade Name:

Dow Corning 8500 Conditioning Agent (Dow Corning)

Trade Name Mixture:

Dow Corning 8600 Hydrophilic Softener (Dow Corning)

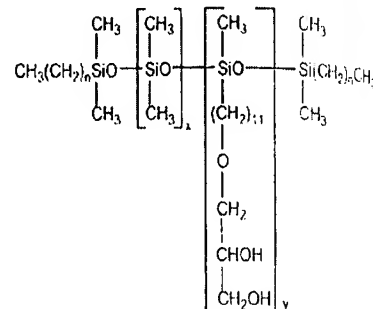
BIS-C16-18 ALKYL GLYCERYL UNDECYL DIMETHICONE

CTFA Monograph ID: 18897

JPN Translation:

ビスアルキル(C16-18)グリセリルウンデシルジメチコン

Definition: Bis-C16-18 Alkyl Glyceryl Undecyl Dimethicone is the siloxane polymer that conforms generally to the formula:



where n has an average value of 15-17

Chemical Class: Synthetic Polymers

Functions: Emulsion Stabilizer; Film Former; Surfactant - Suspending Agent

Ingredient Source: Synthetic

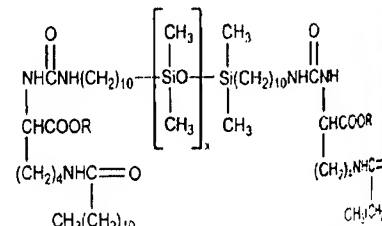
Trade Name:

Sofcare RS-U (Kao Corp.)

BIS-(C1-8 ALKYL LAUROYL LYSINE DECYLCARBOXAMIDE) DIMETHICONE

CTFA Monograph ID: 20233

Definition: Bis-(C1-8 Alkyl Lauroyl Lysine Decylcarboxamide) Dimethicone is the polymer that conforms generally to the formula:



where R represents a C1-8 alkyl group
See Reported Ingredient Functions-The Cosmetic Drug Distinction, in Regulatory and Ingredient Use Information, Volume I, Part A.

Chemical Classes: Siloxanes and Silanes; Synthetic Polymers

Functions: Skin-Conditioning Agent - Emollient; Skin Protectant; Viscosity Increasing Agent - Nonaqueous

Ingredient Source: Synthetic

BIS-CAPRYLYLAMINOETHYL GLYCINE

CTFA Monograph ID: 12039

The inclusion of any compound in the *Dictionary and Handbook* does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.